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1. (Canceled) A sandwich liposome composition comprising an invaginated vase-like structure containing 1,2-bis(oleoyloxy)-3-(trimethylammonio)-propane, at least one cholesterol or cholesterol derivative, and a biologically-active agent.
2. (Cancelled) The sandwich liposome composition according to claim 1 wherein the composition has a net charge value equal to 2.
3. (Canceled) The liposome composition according to claim 1, wherein the biologically-active agent is a nucleic acid.
4. (Canceled) The liposome composition according to claim 3 further comprising, a targeting ligand present on the exterior surface of said sandwich liposome.
5. (Canceled) A DNA-sandwich liposome composition comprising an invaginated vase-like structure having a plurality of lipid bilayers, and a DNA molecule positioned between two or more lipid bilayers of a sandwich liposome, having net charge of 2 and a size of 200 - 450 nm.
6. (Cancelled) The DNA-sandwich composite liposome of claim 15 further comprising one or more targeting ligands.
7. (Cancelled) A liposome with an invaginated vase-like structure produced by the steps comprising:
 - i) heating 1,2-bis(oleoyloxy)-3-(trimethylammonio)-propane and at least one cholesterol or cholesterol derivative forming heated lipid components;
 - ii) sonicating said heated lipid components; and
 - iii) extruding lipid components sequentially through filters of decreasing pore size.

8. (Cancelled) The liposome of claim 7 further comprising a sandwich liposome, produced by adding a biologically-active agent to the liposomes.

2 9. (Originally presented) The liposome of claim 16, wherein the biologically active agent is DNA, thereby forming a DNA sandwich liposome.

3 10. (Originally presented) The liposome according to claim 9 further comprising a targeting ligand to the exterior surface of said DNA-sandwich liposome.

4 11. (Originally presented) The liposome according to claim 9 further comprising a second biologically active agent.

5 12. (Originally presented) The liposome of claim 9 wherein the DNA, 1,2-bis(oleoyloxy)-3-(trimethylammonio)-propane and at least one cholesterol or cholesterol derivative carry a net charge value of 2.

13. (Cancelled) A method for preparing invaginated vase-like liposomes comprising the steps of:

i) heating a mixture of 1,2-bis(oleoyloxy)-3-(trimethylammonio)-propane and at least one of cholesterol or cholesterol derivative forming heated lipid components;
ii) sonicating said heated lipid components; and
iii) extruding lipid components sequentially through filters of decreasing pore size forming invaginated liposomes.

14. (Cancelled) The method of claim 13, further comprising adding DNA to said invaginated liposomes forming DNA-sandwich liposomes.

6 15. (Originally presented) A DNA-sandwich composite liposome comprising an invaginated vase-like structure having a plurality of lipid bilayers, and a DNA molecule positioned between two or more lipid

bilayers of the sandwich liposome, having net charge of 2 and a size of 200-450 nm.

16. (Originally presented) An invaginated vase-like liposome produced by the steps comprising:
- i) heating 1,2-bis(oleoyloxy)-3-(trimethylammonio)-propane and at least one cholesterol or cholesterol derivative forming heated lipid components;
 - ii) hydrating said heated lipid components forming hydrated lipid components;
 - iii) sonicating said [heated] hydrated lipid components forming sonicated lipid components;
 - iv) extruding said sonicated lipid components sequentially through filters of decreasing pore size; and
 - v) adding a biologically active agent to said extruded lipid components forming invaginated vase-like liposomes.
17. (New) A method for preparing invaginated vase-like liposomes comprising the steps of:
- i) heating a mixture of 1,2-bis(oleoyloxy)-3-(trimethylammonio)-propane and at least one of cholesterol or cholesterol derivative forming heated lipid components;
 - ii) hydrating said heated lipid components forming hydrated lipid components;
 - iii) sonicating said hydrated lipid components forming sonicated lipid components;
 - iv) extruding said sonicated lipid components sequentially through filters of decreasing pore size forming invaginated vase-like liposomes; and
 - v) adding DNA to said invaginated vase-like liposomes forming DNA-sandwich liposomes.

18. (New) A composite liposome comprising a first lipid bilayer liposome having an outer surface; a biologically active agent surrounding the outer surface of said first lipid bilayer liposome; and a second lipid bilayer encapsulating the biologically active agent, wherein said composite liposome forms an invaginated vase-like structure.

19. (New) The composite liposome of claim 18, wherein the biologically active agent is DNA.